



SEQUENCE LISTING

<110> XU, ZUOSHANG
ZAMORE, PHILIP D.

<120> ALLELE-SPECIFIC RNA INTERFERENCE

<130> UMY-038

<140> 10/700,816

<141> 2003-11-04

<150> 60/423,507

<151> 2002-11-04

<150> 60/488,283

<151> 2003-07-18

<160> 19

<170> PatentIn Ver. 3.3

<210> 1

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

uggagacuug cgcaaugugt t

21

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 2

cacauugcgc aagucuccat t

21

<210> 3
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 3
 ggagacuugc gcaaugugat t 21

<210> 4
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 4
 ucacauugcg caagucucct t 21

<210> 5
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 5
 gagacuugcg caaugugact t 21

<210> 6
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 6

guacacauugc gcaagucuct t

21

<210> 7

<211> 48

<212> RNA

<213> Homo sapiens

<400> 7

gagaggcaug uuggagacuu gggcaaugug acugcugaca aagauggu

48

<210> 8

<211> 48

<212> RNA

<213> Homo sapiens

<400> 8

gagaggcaug uuggagacuu gcgcaaugug acugcugaca aagauggu

48

<210> 9

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 9

gagacuuggg caaugugact t

21

<210> 10

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 10

gucacauugc ccaagucuct t

21

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11

ggagacuugg gcaaugugat t

21

<210> 12

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12

ucacauugcc caagucucct t

21

<210> 13

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13

uggagacuug ggcaaugugt t

21

<210> 14
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 14

cacauugccc aagucuccat t 21

<210> 15

<211> 35

<212> DNA

<213> Homo sapiens

<400> 15

actgctgaca aagatggtgt ggccgatgtg tctat 35

<210> 16

<211> 52

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 16

gacaaagaug cuguggccga uaagcuuaucc ggccacagca ucuuugucuu uu 52

<210> 17

<211> 459

<212> DNA

<213> Homo sapiens

<400> 17

gcgacgaagg ccgtgtgcgt gctgaagggc gacggcccag tgcagggcat catcaatttc 60
 gagcagaagg aaagtaatgg accagtgaag gtgtggggaa gcattaaagg actgactgaa 120
 ggcttgcatt gattccatgt tcatgagttt ggagataata cagcaggctg taccagtgc 180
 ggtcctcact ttaatcctct atccagaaaa cacggtgggc caaaggatga agagaggcat 240
 gttggagact tgggcaatgt gactgctgac aaagatggtg tggccgatgt gtctattgaa 300
 gattctgtga tctcactctc aggagacat tgcattcatt gccgcacact ggtggtccat 360
 gaaaaagcag atgacttggg caaagggtgga aatgaagaaa gtacaaagac aggaaacgct 420
 ggaagtcgtt tggcttgttg tgtaattggg atcgcccaa 459

<210> 18
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 18
 Ala Thr Lys Ala Val Cys Val Leu Lys Gly Asp Gly Pro Val Gln Gly
 1 5 10 15
 Ile Ile Asn Phe Glu Gln Lys Glu Ser Asn Gly Pro Val Lys Val Trp
 20 25 30
 Gly Ser Ile Lys Gly Leu Thr Glu Gly Leu His Gly Phe His Val His
 35 40 45
 Glu Phe Gly Asp Asn Thr Ala Gly Cys Thr Ser Ala Gly Pro His Phe
 50 55 60
 Asn Pro Leu Ser Arg Lys His Gly Gly Pro Lys Asp Glu Glu Arg His
 65 70 75 80
 Val Gly Asp Leu Gly Asn Val Thr Ala Asp Lys Asp Gly Val Ala Asp
 85 90 95
 Val Ser Ile Glu Asp Ser Val Ile Ser Leu Ser Gly Asp His Cys Ile
 100 105 110
 Ile Gly Arg Thr Leu Val Val His Glu Lys Ala Asp Asp Leu Gly Lys
 115 120 125
 Gly Gly Asn Glu Glu Ser Thr Lys Thr Gly Asn Ala Gly Ser Arg Leu
 130 135 140
 Ala Cys Gly Val Ile Gly Ile Ala Gln
 145 150

<210> 19
 <211> 2288
 <212> DNA
 <213> Homo sapiens

<400> 19
 gtaccctggt tacatcattt tgccattttc gcgtactgca accggcgggc cacgccgtga 60
 aaagaagggt gttttctcca cagtttcggg gttctggacg tttcccggt gcggggcggg 120
 gggagctctc ggcgcacgcg gccccttggc ccgcccagc cattcccggc cactcgcgac 180
 ccgaggctgc cgcagggggc gggctgagcg cgtgcgaggc cattggtttg gggccagagt 240
 gggcgaggcg cggaggctcg gcctataaaag tagtcgcgga gacgggggtg tggtttgcgt 300
 cgtagtctcc tgcaggctcg gggtttccgt tgcagtcctc ggaaccagga cctcggcgtg 360
 gcctagcgag ttatggcgac gaaggccgtg tgcgtgctga agggcgacgg ccagtgagc 420
 ggcacatcat atttcgagca gaaggcaagg gctgggaccg ggaggcttgt gttgcgaggc 480
 cgctcccgcg ccgctcgtcc ccccgcgacc ctttgcagtg acgggtcgcc cgccaggggt 540
 agagcagtta agcagcttgc tggagggttca ctggctagaa agtgggtcagc ctgggattgc 600
 atggacggat ttttcactc ccaagtctgg ctgcttttta cttcactgtg aggggtaaaag 660
 gtaaatcagc tgttttcttt gttcagaaac tctctccaac tttgcacttt tcttaaagga 720
 aagtaatgga ccagtgaagg tgtggggaag cattaaagga ctgactgaag gcctgcagtg 780
 attccatggt catgagtttg gagataatac agcaggtggg tcataattta gctttttttt 840
 cttcttctta taaataggct gtaccagtgc aggtcctcac tttaatcctc tatccagaaa 900

```

acacgggtggg ccaaaggatg aagagaggta acaagatgct taactcttgt aatcaatggc 960
gatacgtttc tggagttcat atggtatact acttgtaa atgtgcctaa gataattccg 1020
tgtttcccc acctttgctt ttgaacttgc tgactcatgt gaaaccctgc tcccaa atgc 1080
tggaatgctt ttacttcctg ggcttaaagg aattgacaaa tgggcactta aaacgatttg 1140
gtttttagc atttgattga atatagaact aatacaagt ccaaagggga actaatacag 1200
gaaatgttca tgaacagtac tgtcaaccac tagcaaaatc aatcatcatt tgatgctttt 1260
catataggca tgttggagac ttggggcaatg tgactgctga caaagatggg gtggccgatg 1320
tgtctattga agattctgtg atctcactct caggagacca ttgcatcatt ggccgcacac 1380
tgggtggtaag ttttcataaa ggatatgcat aaaacttctt ctaacagtac agtcatgtat 1440
ctttcacttt gattgttagt cgcgaattct aagatccaga taaactgtgt ttctgctttt 1500
aaactactaa atattagtat atctctctac taggattaat gttatttttc taatattatg 1560
aggttcttaa acatcttttg ggtattgttg ggaggaggta gtgattactt gacagcccaa 1620
agttatcttc ttaaaatttt ttacagggtcc atgaaaaagc agatgacttg ggcaaagggtg 1680
gaaatgaaga aagtacaaag acaggaaacg ctggaagtcg tttggcttgt ggtgtaattg 1740
ggatcgccca ataaacattc ccttggatgt agtctgaggc cccttaactc atctgttatc 1800
ctgctagctg tagaaatgta tcctgataaa cattaaacac tgtaatctta aaagtgtaat 1860
tgtgtgactt tttcagagtt gctttaaagt acctgtagtg agaaactgat ttatgatcac 1920
ttggaagatt tgtatagttt tataaaactc agttaaaatg tctgtttcaa tgacctgtat 1980
tttgccagac ttaaatcaca gatgggtatt aaacttgtca gaatttcttt gtcattcaag 2040
cctgtgaata aaaaccctgt atggcactta ttatgaggct attaaaagaa tccaaattca 2100
aactaaatta gctctgatac ttatttatat aaacagcttc agtggaacag atttagtaat 2160
actaacagtg atagcatttt attttgaaag tgttttgaga ccatcaaat gcatacttta 2220
aaacagcagg tcttttagct aaaactaaca caactctgct tagacaaata ggctgtcctt 2280
tgaagctt

```